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["Uspekhi Matemat Nauk" Vol VI, No 4(44), pp 193-220]

The article gives

Abstracts of 27 reports on topology presented at five sessions (26, 27, 29, 29(eve), of the 1950 All-Union Topological Conference

30 May 1950), held in the Mathematical Institute, Academy of Sciences USSR, which were given by the Department of Topology and Geometry. A total of 82 persons participated in the conference (37 from Moscow, 7 from Leningrad, 5 from Gor'kiy, 2 from Tbilisi, 2 from Ivanovo, 1 from L'vov, 1 from Tomsk, 1 from Kiev, 1 from Smolensk, 1 from Yerevan). Trends and applications of topology were discussed. Another topological conference will be called during the next five years.

One-page summaries are given of the following reports:

1. P.S. Aleksandrov, "New Demonstration of Pontrjagin's Law of Duality".
2. G.S. Chogoshvili, "Duality Relations for Arbitrary Sets".
3. M.F. Tokstaym, "Dimensions of a Topological Product".
4. V.G. Boltyanskiy, "Construction of a Two-Dimensional Compactum Possessing a Three-Dimensional Topological Square".
5. K.A. Sitnikov, "Homological Imbedding of Compacta in a Euclidean Space".
6. V.N. Ivanova, "Spaces of Closed Sets".
7. N.A. Shanin, "Survey of the Works of Young Leningrad Topologists (I.I. Yablonovskaya, "Spaces of Closed Sets"; A.A. Kolmakov, "Functional Closed Spaces"; N.S. Rumm, "Regular Families of Coverings")"
8. V.A. Yefremovich, "Infinitesimal Spaces".
9. A.L. Lunts, "Non-equivalence of Two Determinations of Dimensionality for Bicompacta".
10. Yu.M. Smirnov, "Systems of Open Sets in Topological Spaces".
11. Yu.A. Rozhanskay, "Theory of Open Reflections".
12. A.A. Abramov, "Certain Topological Invariants of Riemannian Spaces and Spaces of Affine Connection".
13. R.E. Vinograd, "Two Examples of Three-Dimensional Manifolds".
14. I.G. Petrovskiy, "Topology of Real Algebraic Surfaces".
15. O.A. Oleynik, "Algebraic Curves on an Algebraic Surface".

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16. M.M. Lebedev, "Application of Topology to Analysis and Synthesis of Commutational Schemes of Distributive Constructions".

17. L.V. Keldysh, "Continuous Reflections Exceeding the Dimensionality".

18. O.V. Lokutsiyevskiy, "Open Reflections of One-Dimensional Compacta on Cubes of Arbitrary Dimensions".

19. L.A. Tumarkin, "Open One-Dimensional Compacta".

20. L.V. Progkuryakov, "New Demonstration of Equivalence of Two Determinations of Dimensionality of a Topological Space".

21. N.Ya. Vilenkin, "Direct Spectra of Topological Abelian Groups and Their Theory of Characters".

22. V.A. Rokhlin, "Survey of Results on Homotopical Theory of Reflections of [illegible]

S^{n+k} Spheres into S^n Spheres"

23. L.S. Pontryagin [Pontriagin] "Local Method of Investigation of Reflections of S^{n+k} Spheres into S^n Spheres"

24. I.I. Gordon, "Classification of Reflections of Complex into Projective Space".

25. M.M. Postnikov, "Homotopical Theory of Continuous Reflections".

26. A.A. Ivanov, "Isotopy of Compacta in Euclidean Spaces".

27. M.A. Krasnoselskiy, "Application of Topology to Nonlinear Functional Analysis".

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